

AMENDMENTS TO THE CLAIMS

1-12. (Canceled)

13. (Currently amended) A material produced by the process of ~~Claim 1~~ depositing an oriented particle from an oriented liquid crystal medium onto a substrate.

14. (Original) The material of Claim 13, wherein the material comprises a film.

15. (Original) The material of Claim 13, wherein the material comprises a uniaxial particulate film.

16. (Original) The material of Claim 13, wherein the material comprises a monolayer film.

17-36. (Canceled)

37. (Currently amended) A material comprising at least one oriented layer, wherein the oriented layer is formed by depositing an oriented ~~component~~ particle from an oriented liquid crystal medium.

38. (Original) The material of Claim 37, wherein the material comprises a film.

39. (Original) The material of Claim 37, wherein the material comprises a uniaxial particulate film.

40-41. (Canceled)

42. (Original) A multilayered material comprising at least one oriented layer, wherein the oriented layer is formed by depositing an oriented component from an oriented liquid crystal medium.

43. (Currently amended) The material of Claim 42, wherein ~~at least one~~ the component comprises an organic molecule.

44. (Currently amended) The material of Claim 42, wherein ~~at least one~~ the component comprises a particle.

45-49. (Canceled)

50. (New) The material of Claim 13, wherein the particle comprises a carbon nanotube.

51. (New) The material of Claim 13, wherein the particle is at least one of a fiber or a whisker.

52. (New) The material of Claim 13, wherein the particle comprises an inorganic particle.

53. (New) The material of Claim 13, wherein the particle comprises a microtubule.

54. (New) The material of Claim 13, wherein the particle comprises a viral particle.

55. (New) The material of Claim 13, wherein the particle comprises a nucleic acid polymer.

56. (New) The material of Claim 13, wherein the particle comprises an organic particle.

57. (New) An oriented material having at least two layers, comprising:  
a substrate;

a first oriented layer comprising a first oriented component, wherein the first layer is formed by depositing the first oriented component from a first oriented liquid crystal medium onto the substrate; and

a second oriented layer comprising a second oriented component, wherein the second layer is formed by depositing the second oriented component from a second oriented liquid crystal medium onto the first oriented layer;

wherein the first oriented layer is intermediate the substrate and second oriented layer.

58. (New) The material of Claim 57, wherein the oriented material comprises a film.

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59. (New) The material of Claim 57, wherein at least one of the first or second oriented components comprises an organic molecule.

60. (New) The material of Claim 57, wherein at least one of the first or second oriented components comprises a particle.

61. (New) The material of Claim 57, wherein the first oriented component has an orientation that is the same as the second oriented component.

62. (New) The material of Claim 57, wherein the first oriented component has an orientation that is different from the second oriented component.

63. (New) An oriented material having at least two layers, comprising:  
a substrate;

a first oriented layer comprising a first oriented component, wherein the first layer is formed by depositing the first oriented component from a first oriented liquid crystal medium onto the substrate; and

a second layer comprising a second component, wherein the second layer is formed by depositing the second component from a second oriented liquid crystal medium onto the substrate;

wherein the first oriented layer is intermediate the substrate and second layer.

64. (New) The material of Claim 63, wherein the second component is randomly oriented.

65. (New) The material of Claim 63, wherein at least one of the first or second components comprises an organic molecule.

66. (New) The material of Claim 63, wherein at least one of the first or second components comprises a particle.

67. (New) An oriented material having at least two layers, comprising:

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a substrate;

a first layer comprising a first component, wherein the first layer is formed by depositing the first component from a first liquid crystal medium onto the substrate; and

a second oriented layer comprising a second oriented component, wherein the second layer is formed by depositing the second oriented component from a second oriented liquid crystal medium onto the substrate;

wherein the first layer is intermediate the substrate and second oriented layer.

68. (New) The material of Claim 67, wherein the first component is randomly oriented.

69. (New) The material of Claim 67, wherein at least one of the first or second components comprises an organic molecule.

70. (New) The material of Claim 67, wherein at least one of the first or second components comprises a particle.

71. (New) A material having a plurality of layers, at least one of the layers being an oriented layer, comprising:

a substrate; and

a plurality of layers, wherein at least one of the layers is an oriented layer comprising an oriented component, wherein the oriented layer is formed by depositing the oriented component from an oriented liquid crystal medium onto the substrate.

72. (New) The material of Claim 71, wherein the oriented component comprises an organic molecule.

73. (New) The material of Claim 71, wherein the oriented component comprises a particle.